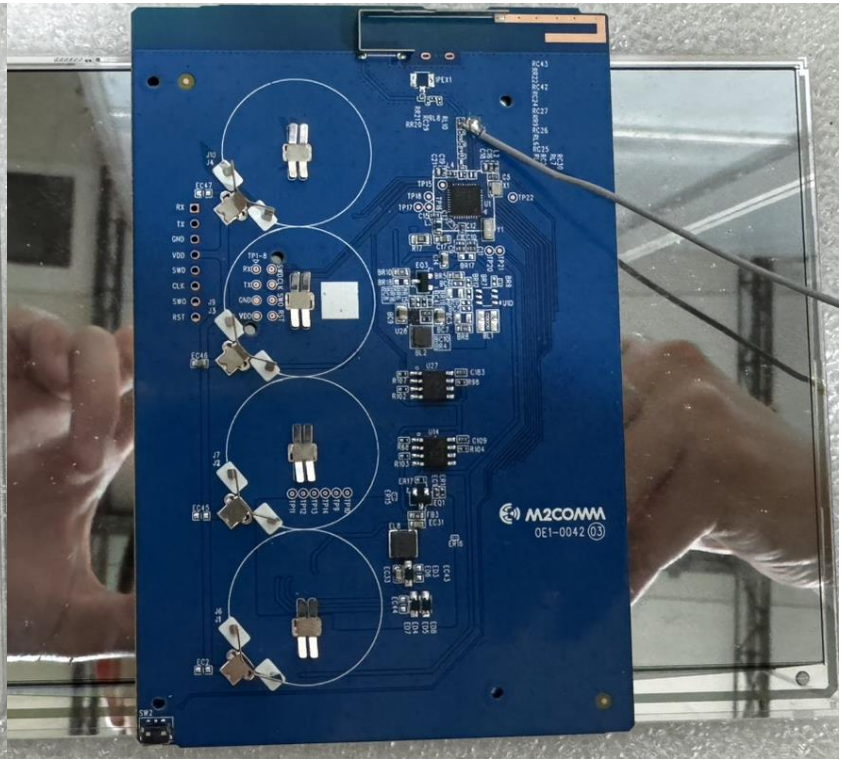
# M2COMM Lora Antenna
# 【Felix 7.5 Rev03】Project

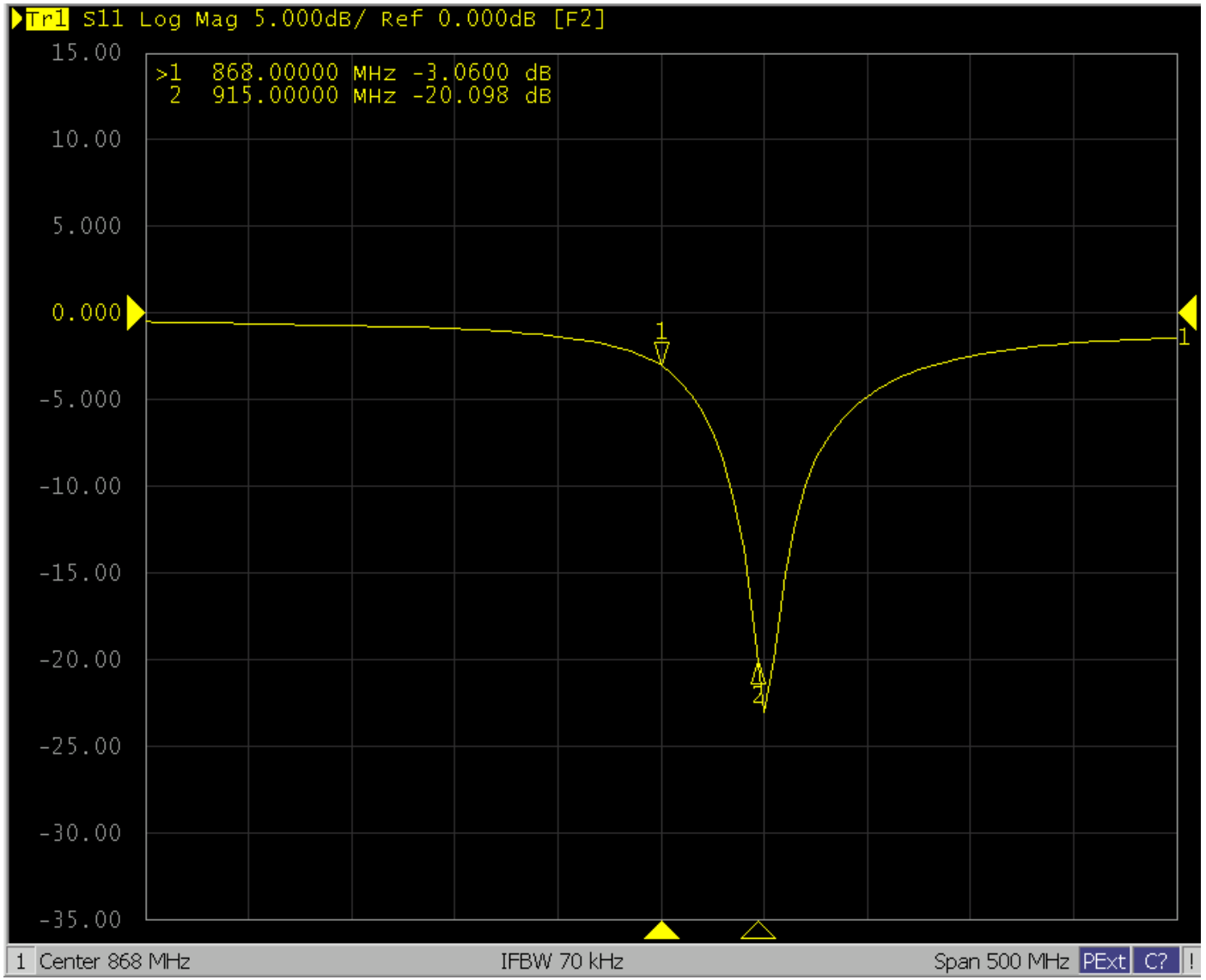
Date 2026/06/25

Author Mark

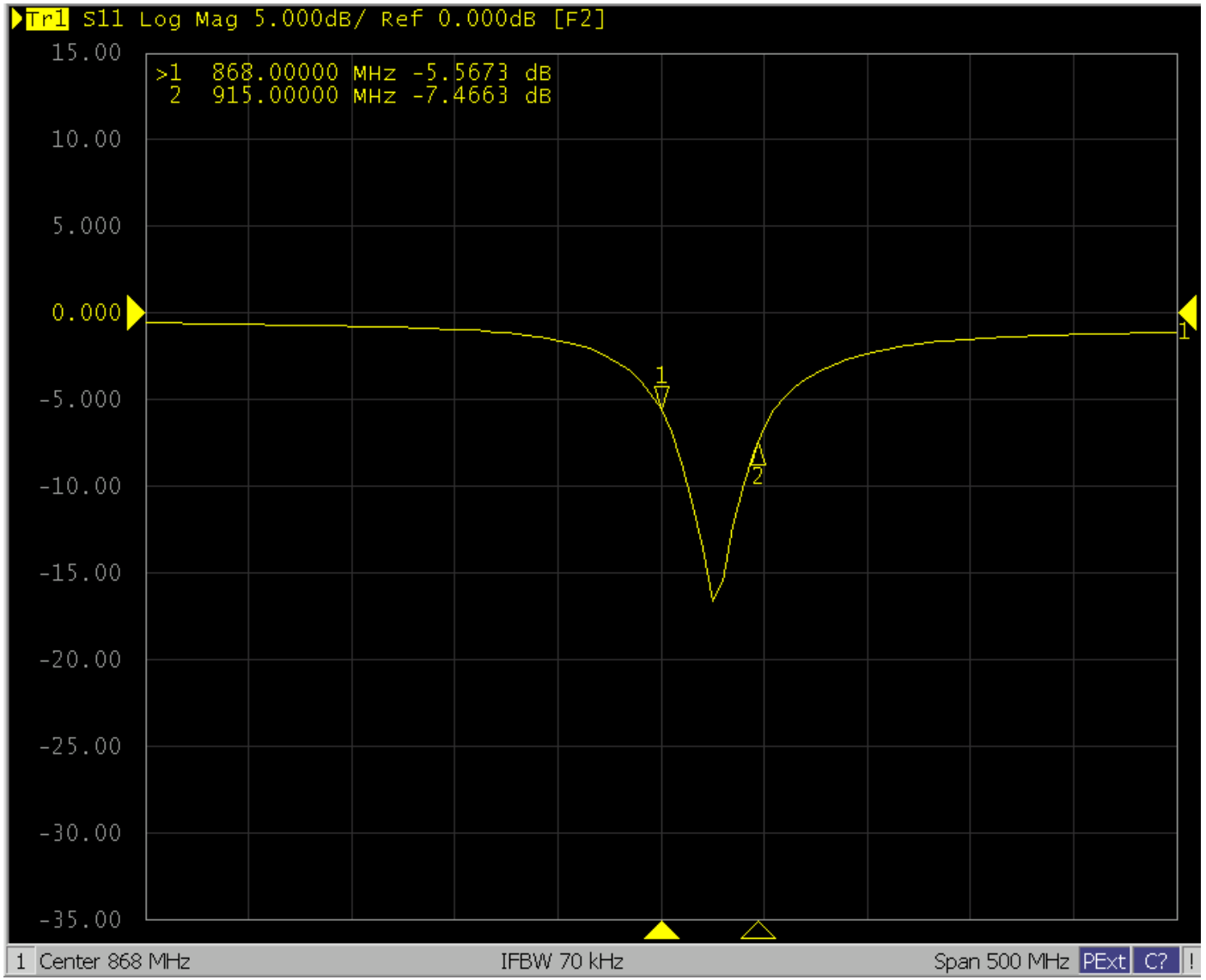
# Environment



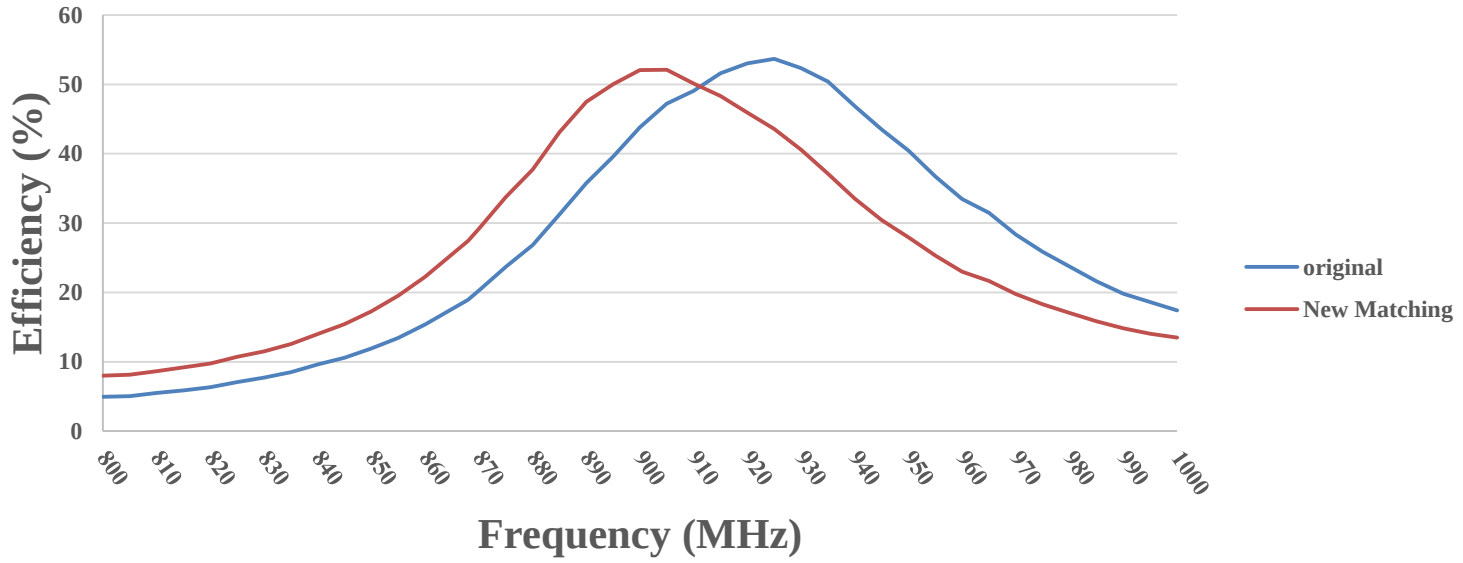
# Antenna S11 (original)



# Antenna S11 (New Matching)

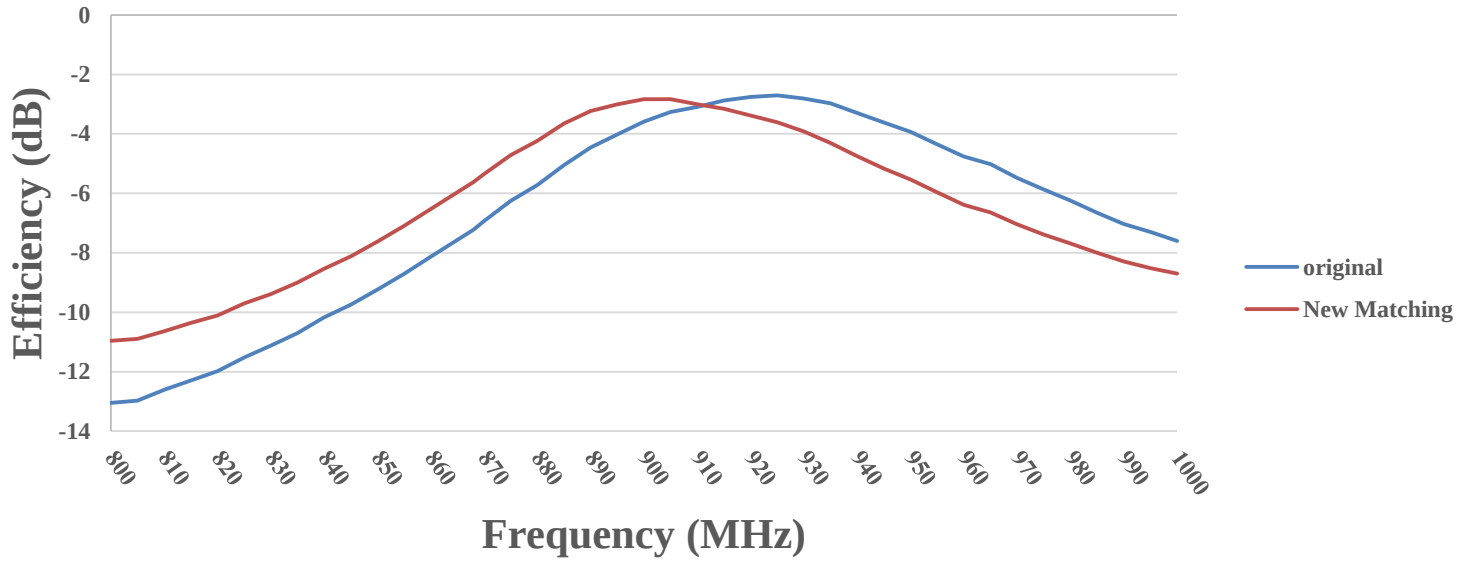


# Antenna Efficiency



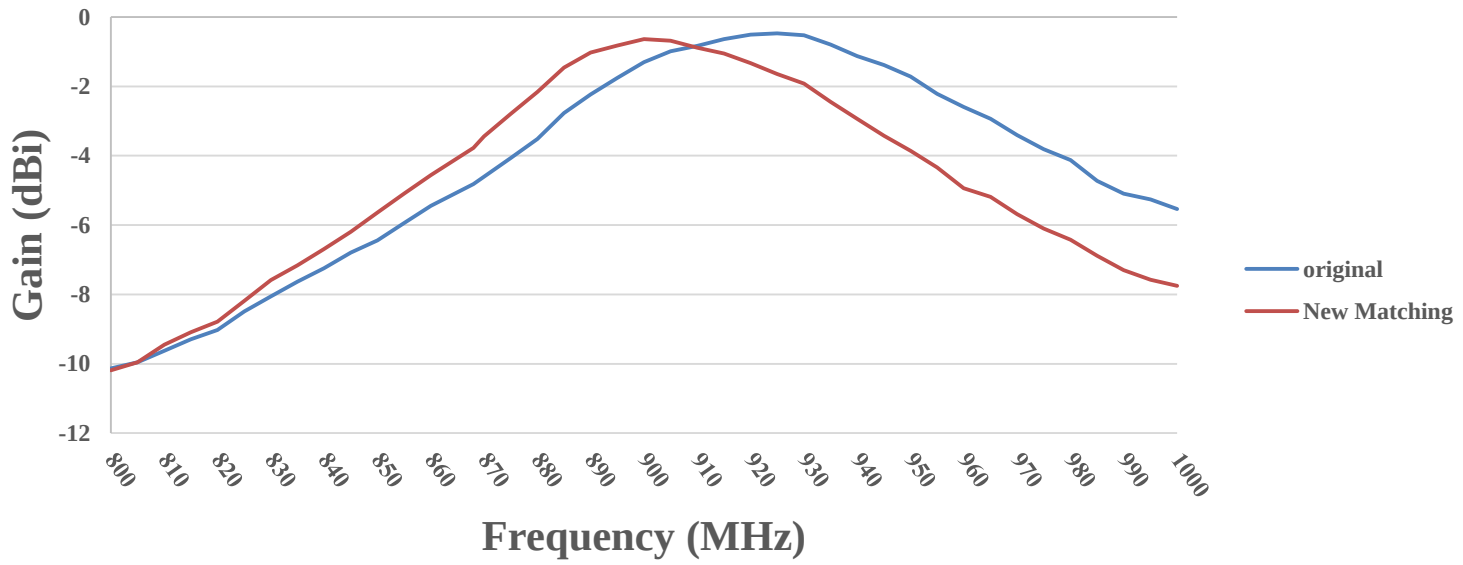

| Frequency (MHz) | 868 | 915 |
|---|---|---|
| original | 18.93 | 51.60 |
| New Matching | 27.41 | 48.30 |

# Antenna Average Gain



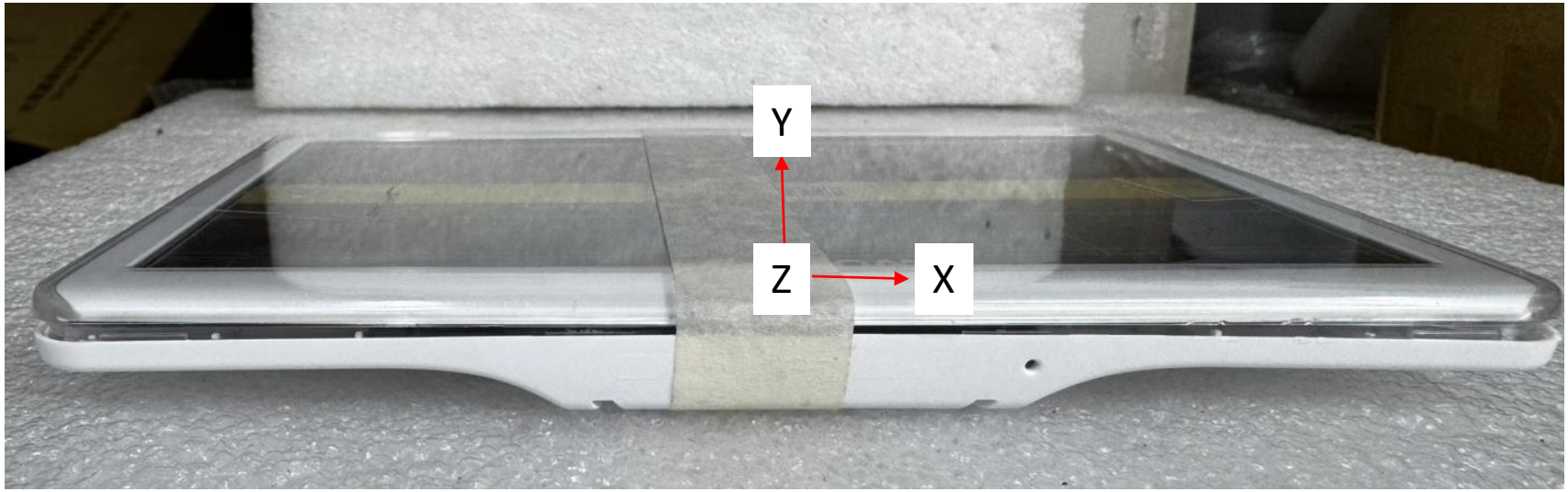

| Frequency (MHz) | 868 | 915 |
|---|---|---|
| original | -7.23 | -2.87 |
| New Matching | -5.62 | -3.16 |

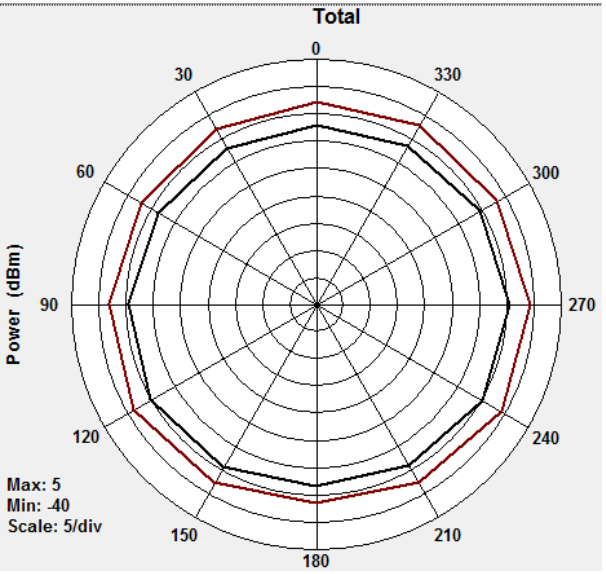
# Antenna Peak Gain



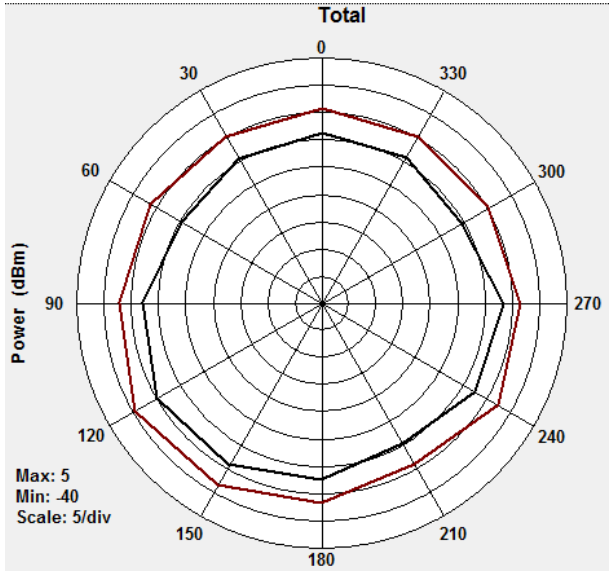

| Frequency (MHz) | 868 | 915 |
|---|---|---|
| original | -4.82 | -0.64 |
| New Matching | -3.78 | -1.05 |

# Antenna 2D Pattern (original)

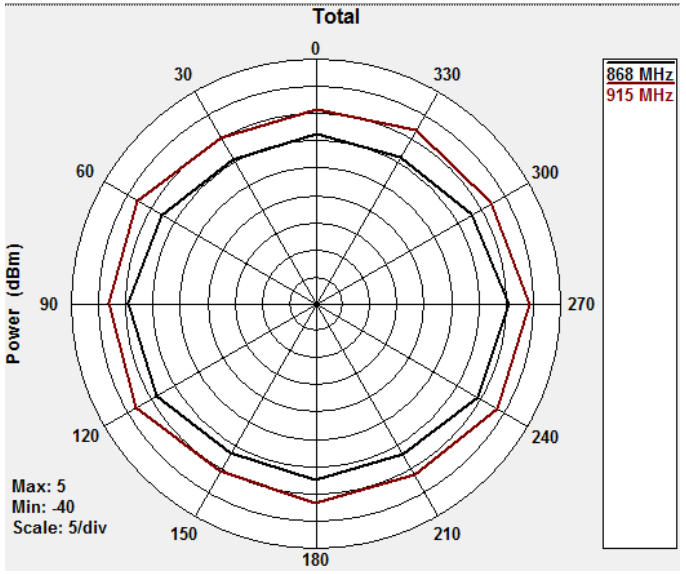



XY-Plane

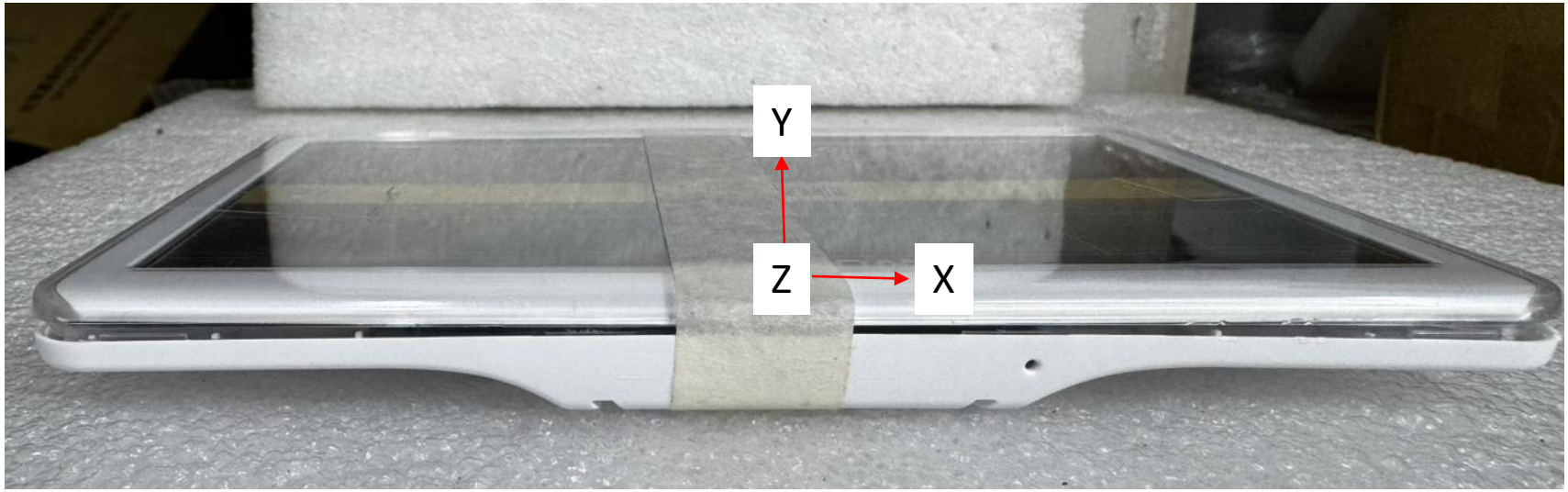


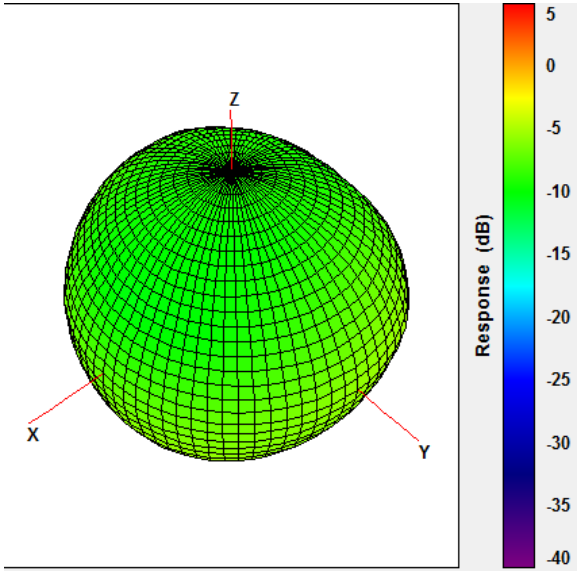

XZ-Plane



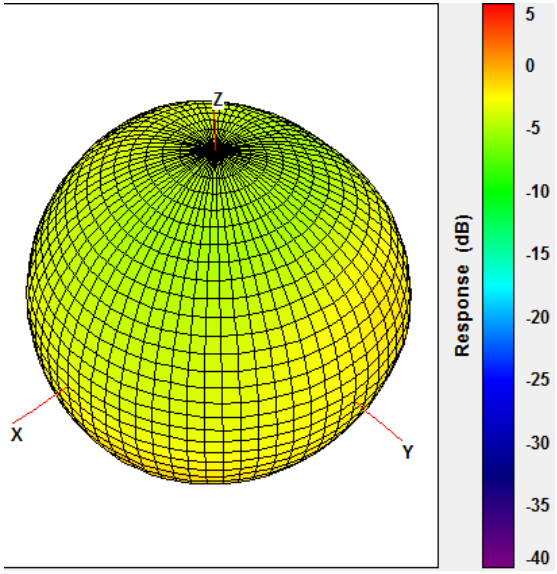

YZ-Plane

# Antenna 3D Pattern (original)



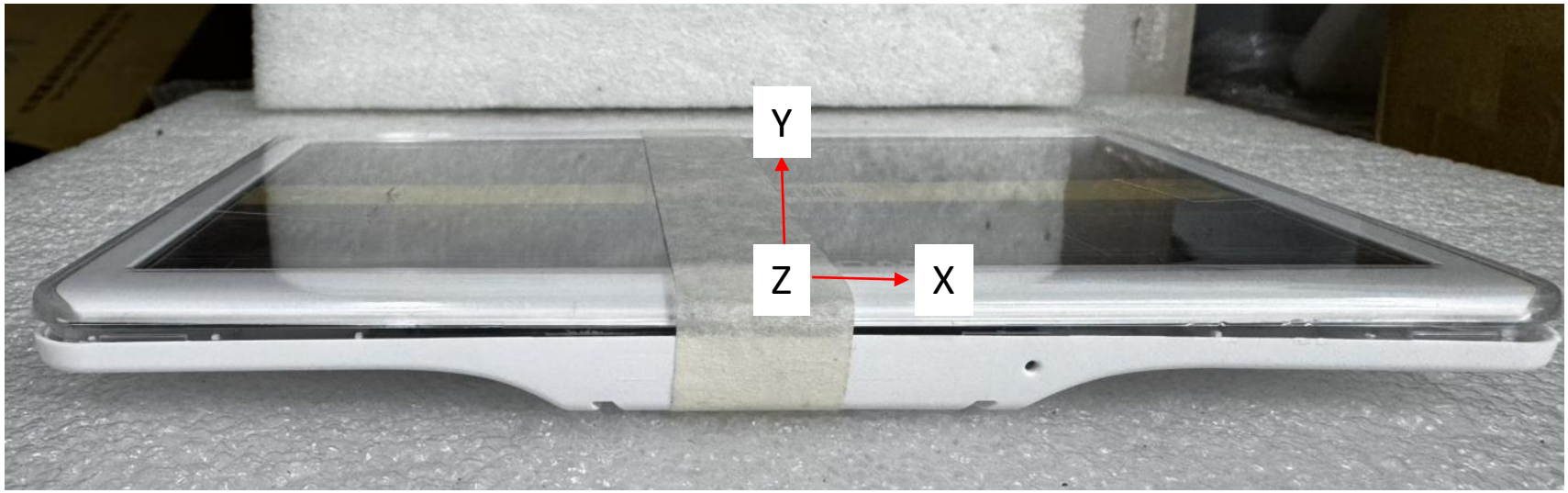



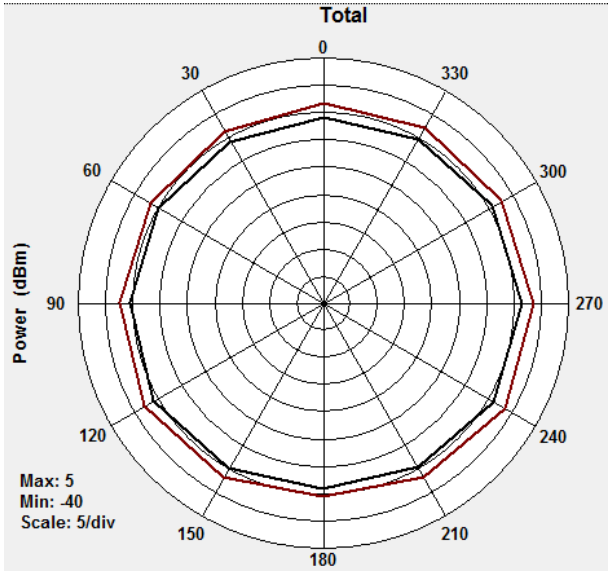

868 MHz



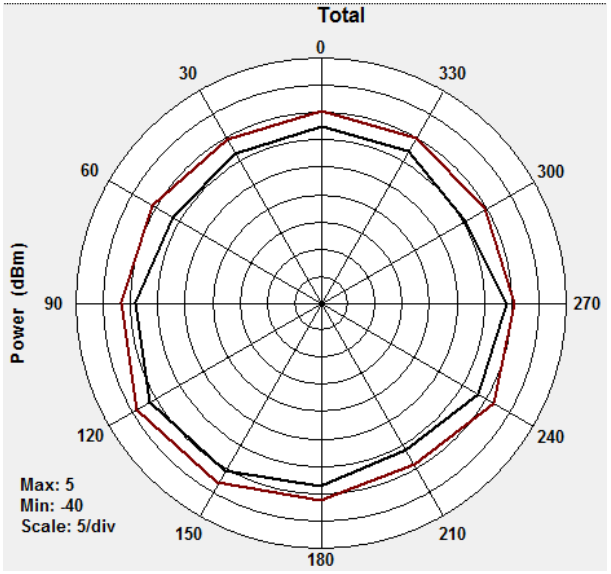

915 MHz

# Antenna 2D Pattern (New Matching)

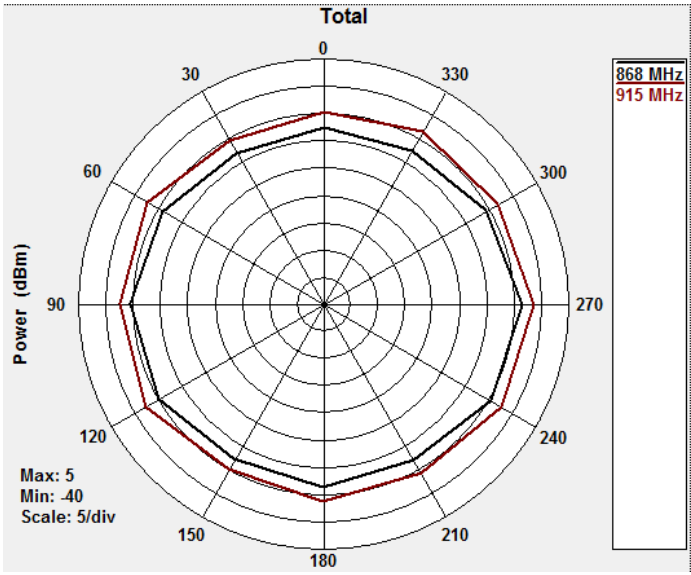



XY-Plane

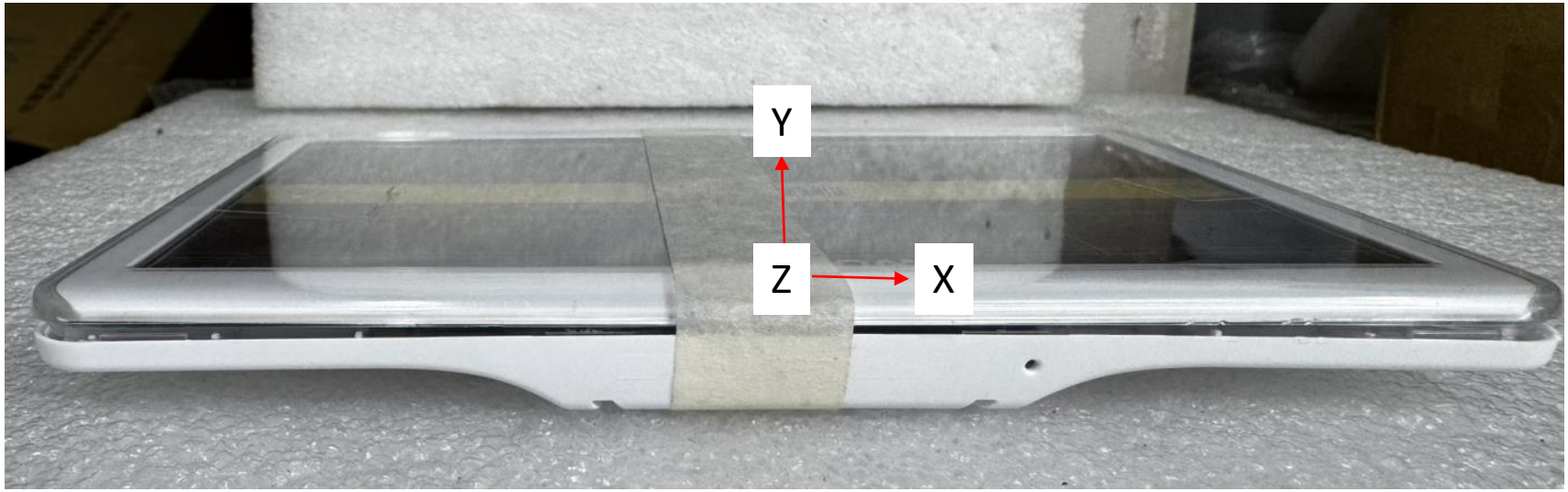


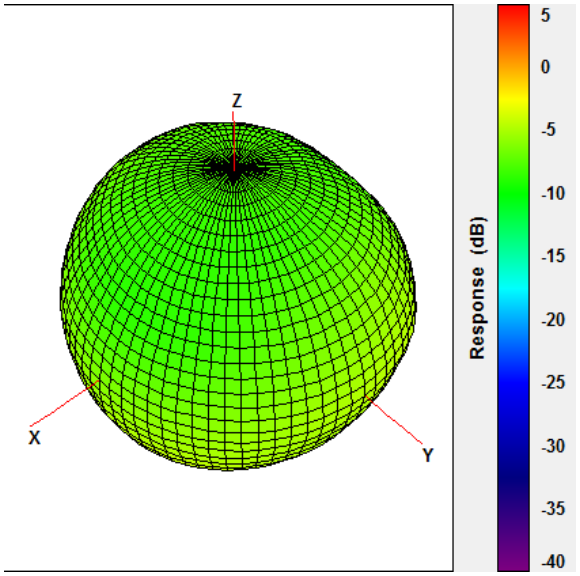

XZ-Plane



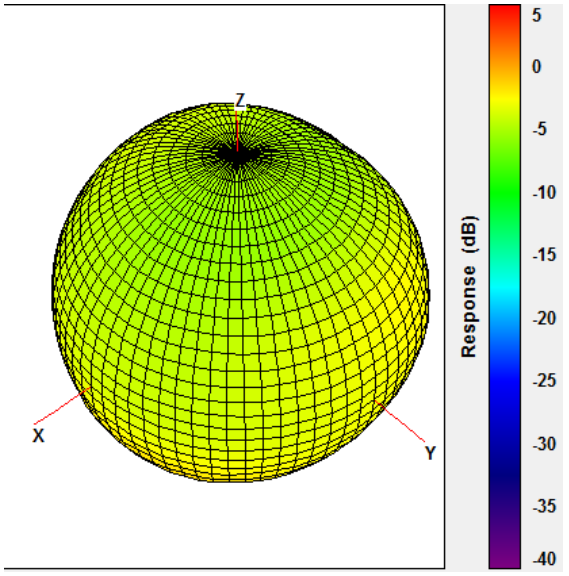

YZ-Plane

# Antenna 3D Pattern (New Matching)




868 MHz




915 MHz